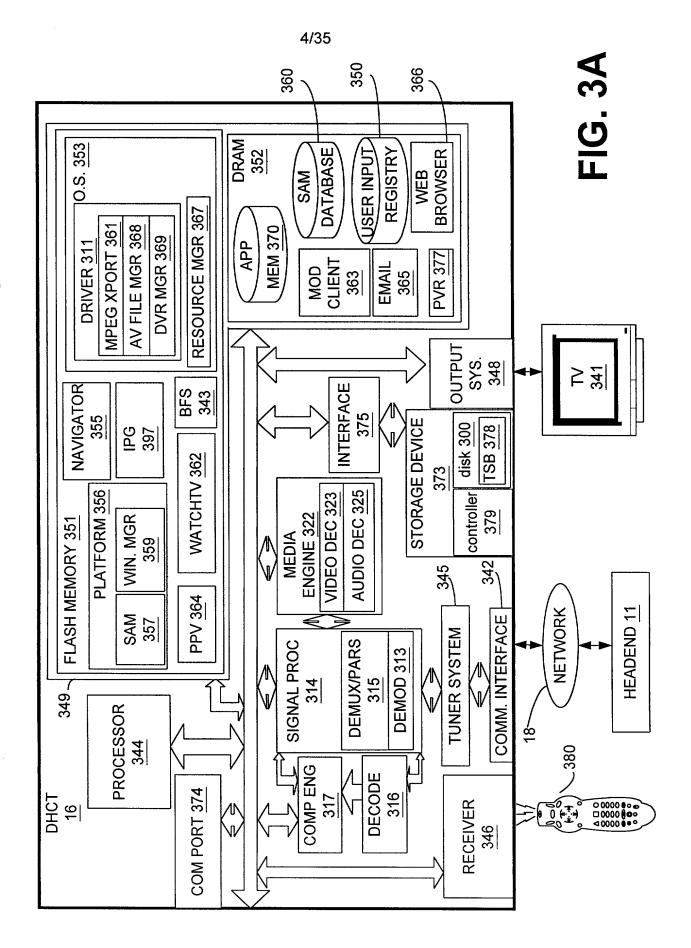
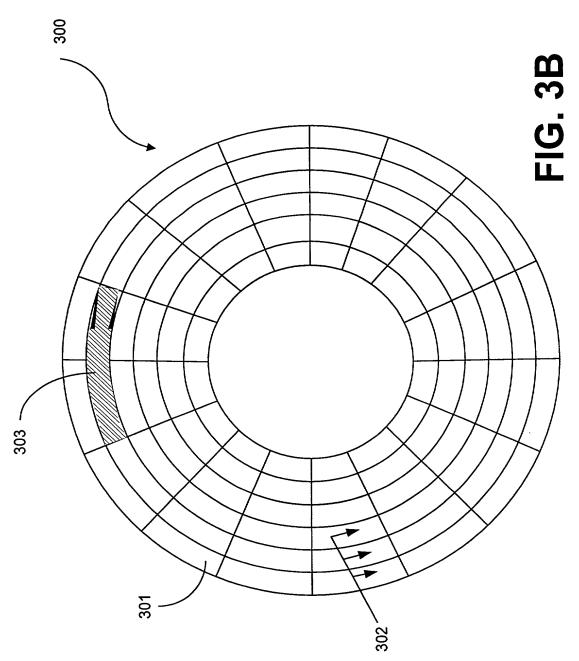


FIG. 2





```
/* stop NPT for the media content instance*/
                                                                                                                                                                                                                                           /* start NPT for the media content instance*/
                                                                                                                                                                                                                                                                                                                                               *
                                                                                                                                                                                                                                                                                                                                                                                *
                                                                                                              *
                                                                              /* 0 = do not permanently record */
                                                                                                                                               /* program description, title, times
                                                                                                                                                                                                                                                                                                                                              tsbStartNPT; /* start NPT for associated TSB
                                                                                                                                                                                                                                                                                                                                                                             tsbStopNPT; /* stop NPT for associated TSB
                                                                                                                                                                                                                                                                                                               tsbHandle /* handle for associated TSB
                                                                                                               /* file handle, 0 = file closed
                                                                                                                                                                                                               /* actual record stop time
                                                                                                                                                                               /* actual record start time
                                                                                                                                                                              __time startTime;
                                                                                                                                                 *guideData;
                                                                                                                                                                                                                                                                               stopNPT;
                                                                                                                                                                                                                                                                                                                                                                                                                  /* additional data */
                                                                                                                                                                                                             ✓ time stopTime;
                                                                                                                                                                                                                                                startNPT;
struct ProgramInfo
                                                                              bool recorded;
                                                char *filename;
                                                                                                                handle;
                                                                                                                                                  , char
                                                                                                                                                                                                                                                                                                                                                 450 int
                                                                                                             / int
                                                                                                                                                                                                                                                                                                                  445 — int
                                                                                                                                                                                                                                                437— int
                                                                                                                                                                                                                                                                                 440 — int
                                                                                                                                                                                                                                                                                                                                                                                                                                                     ټنہ
```

FIG. 4A

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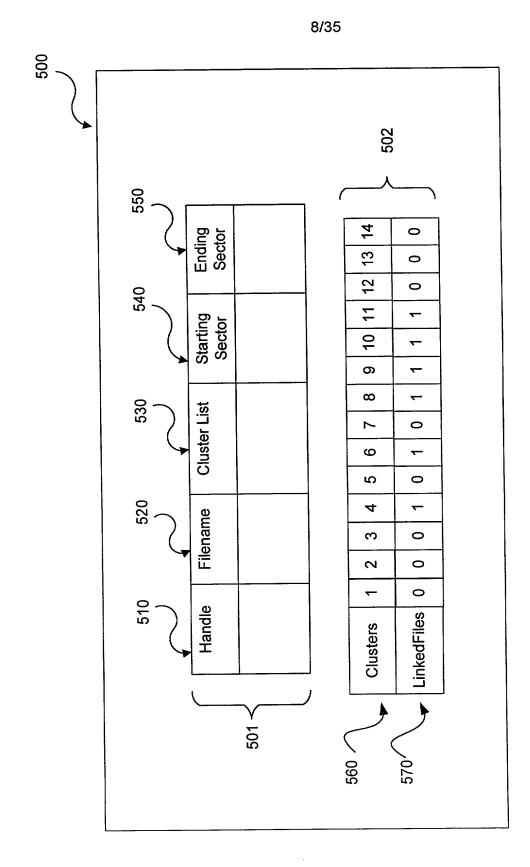
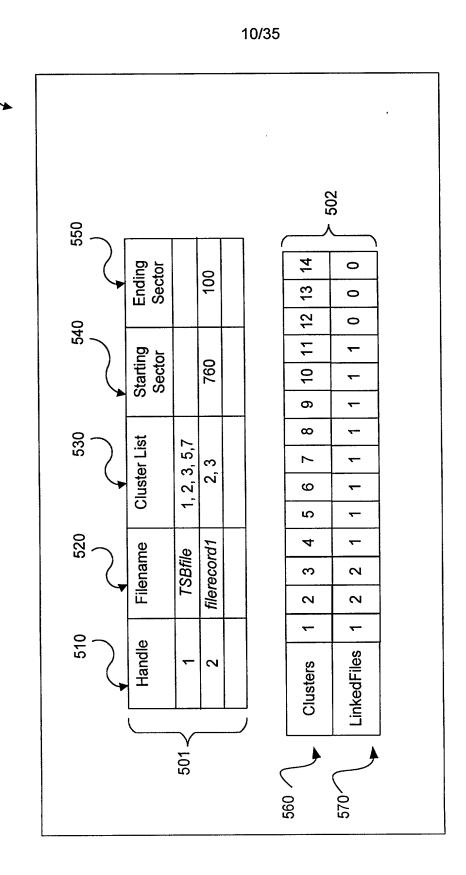
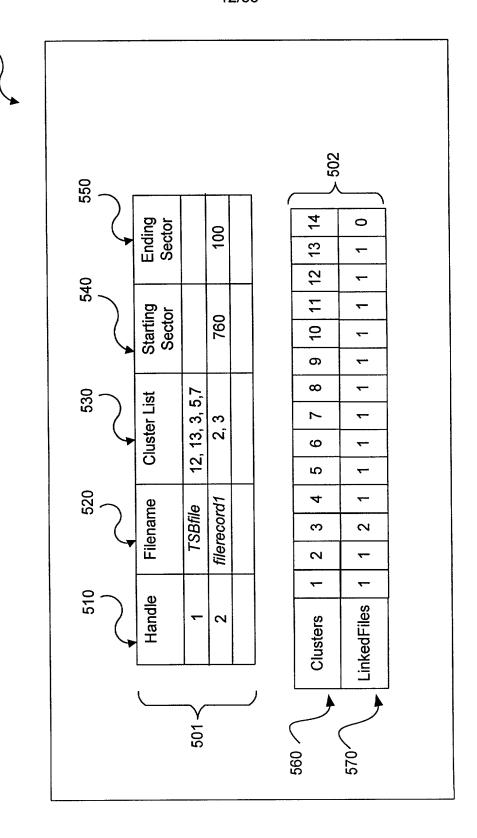


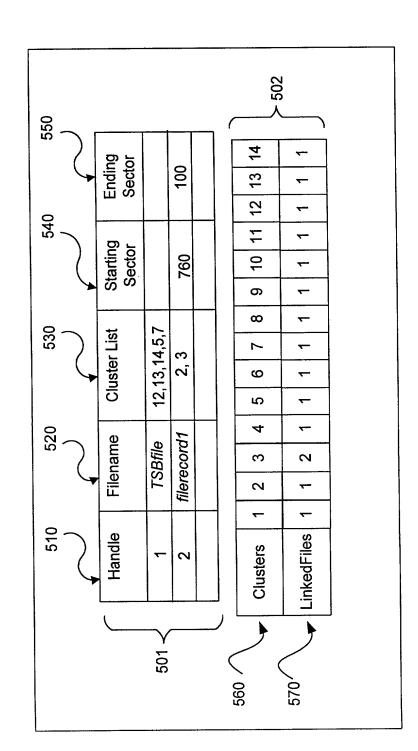
FIG. 5B



## FIG. 5D

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200

```
/* number of linked files */
/* cluster entry data in FAT */
                                     short numLinkedFiles; /* additional data */
struct clusterInfo
{
```

### FIG. 6A

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```
struct Re. ....
```

### FIG. 6B

```
/* ordered list of clusters
                                  ClusterList clusterList;
                                                                  /* additional data */
struct TSBfileInfo
{
```

### FIG. 6C

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void dvrm\_TimeShift (ui32 \*handle, TV\_ID tvld)

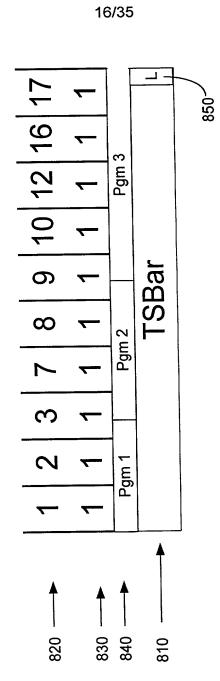
### FIG. 7A

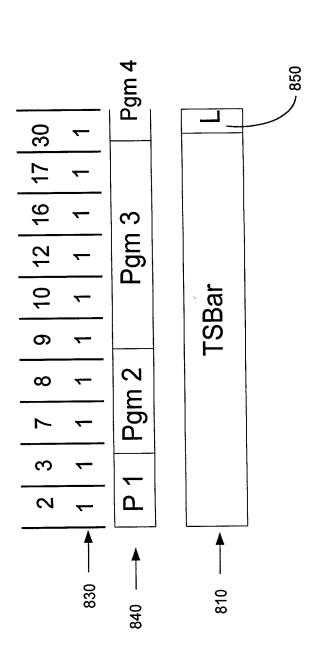
dvrm\_Record (ui32 \*handle, TV\_ID tvld, char \*filename, eDvr\_Quality quality)

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dvrm\_TimeShiffRecord (ui32 \*handle, ui32 \*tsbHandle, char \*filename, i32 startNpt, i32 stopNpt)

### FIG. 7C





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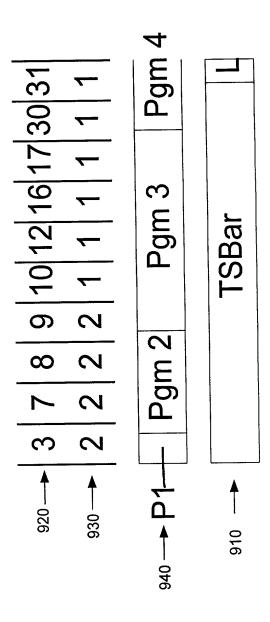


FIG. 9A

4 _		
<u>8</u> –	4	
31	Pgm 4	
30		
17		
16   17   30   31   34       1   1   1   1   1	3	TSBar
10 12 1	Pgm 3	TS
10		
0 0		
8 7	n 2	
7	Pgm	
2		

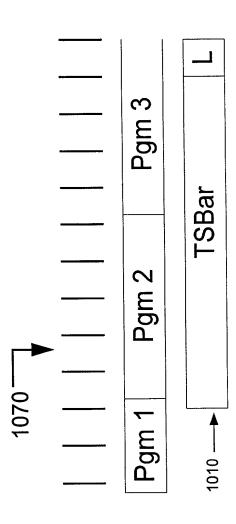
35	_		
30 31 34 35	_	m 4	
31	<u></u>	Pgm	
30	_		
17	~		TSBar
16	~	33	TS
10 12 16 17	~	Pgm 3	
10			
တ	2		
∞	2	m 2	
7		Pgm	
3	~		

10010701 IDOSO1

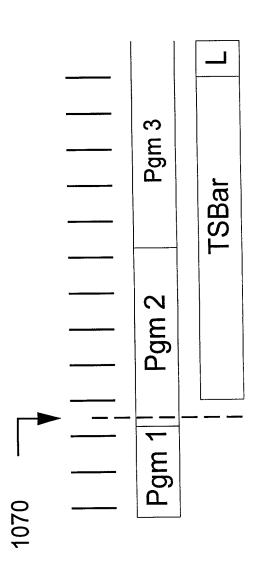
36	<del>-</del>		
35	<del>-</del>	4	
34 35	_	Pgm	
31	_	Ъ	
30 31	~		TSBar
	<del>-</del>		TS
16 17	_	Pgm 3	
12	_	gu	
10 12	_		
6	7		
ω		Pgm 2	
_	_	Pgı	
33	~		

16616761 166561

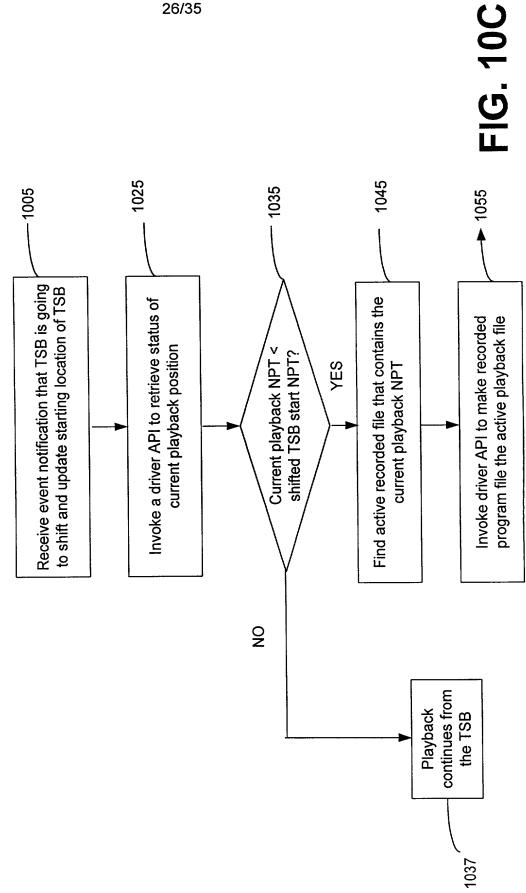
	Pgm 5	
37	<u>α</u>	
36		
35	4	
34	Pgm	
1 3		3ar
30		TSBar
17		
16   17     1   1	m 3	
7 -	Pgm	
10		
o ←		
∞ ←	Pgm 2	
<u> </u>	Pgr	
~ -		



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dvrm\_Status (ui32 handle, \*i32 npt, sDvr\_Scale \*scale, ui32 \*mode)

# FIG. 10D

void dvrm ConvertPlay (ui32 tsbHandle, ui32 handle)

## FIG. 10E

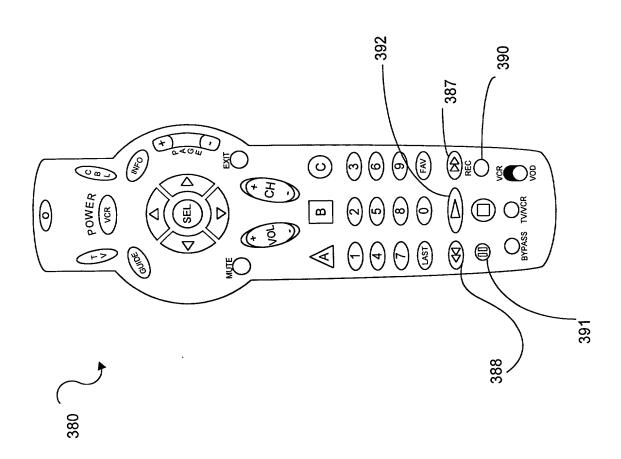
36	~		
35	~	4	
10 12 16 17 30 31 34 35 36	~	Pgm	
31	~	ا م	
30	2		TSBar
17	2		TS
16	7	Pgm 3	
12	2	gu	
10	2		
<b>O</b>	3		
∞	_	_ E	
7	_	Pgm 2	
$\sim$	_		

FIG. 11A

	Pgm 5	
37	<u>a</u>	
36		
35	4	
34	Pgm	
31		3ar
30		TSBar
17		
16 17 2 2	က	
2 2	Pgm 3	
10   12   2   2		
o 0		
∞ ←	n 2	
	Pgm	

		ုက	
38	<u> </u>	Pgm	
37	_	<u>a</u> ,	
36	_		
35	_	4	
10 12 16 17 30 31 34 35 36 37	~	Pgm 4	TSBar
31	_		TS
30	<u> </u>		
17	2		
16	2	3	
12	2	Pgm 3	
10	<u> </u>		
တ	7		
∞	_	m 2	
_	<b>—</b>	Pgm	
က	_		

FIG. 11C



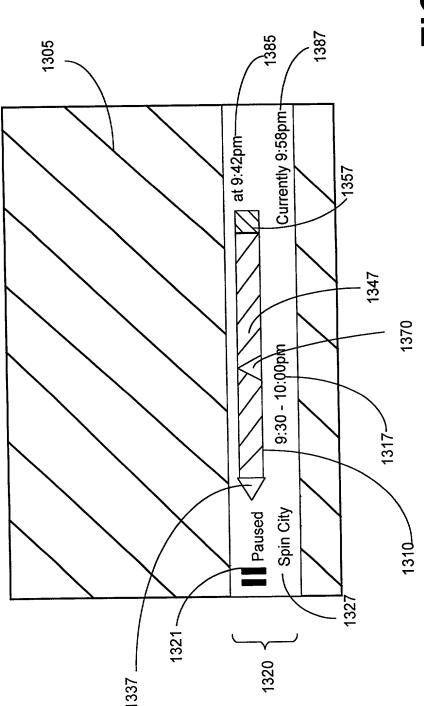
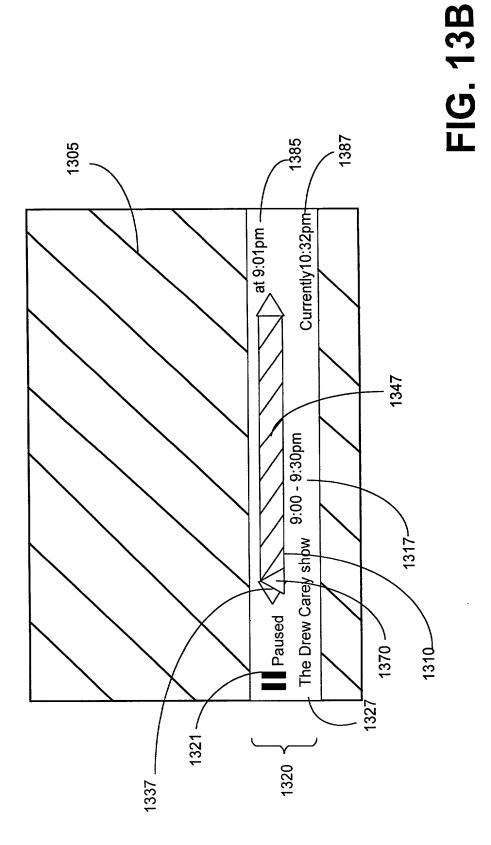


FIG. 13A



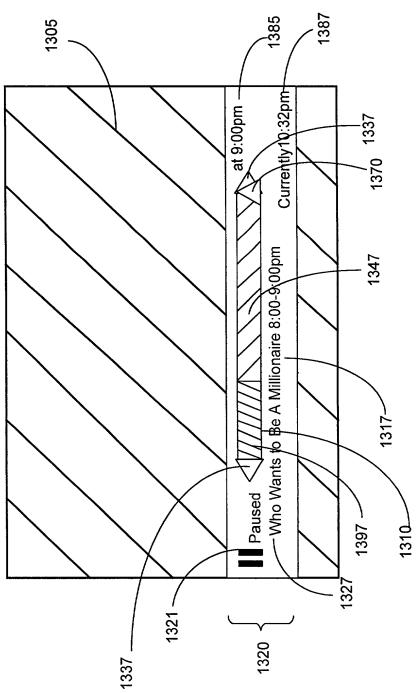


FIG. 13C

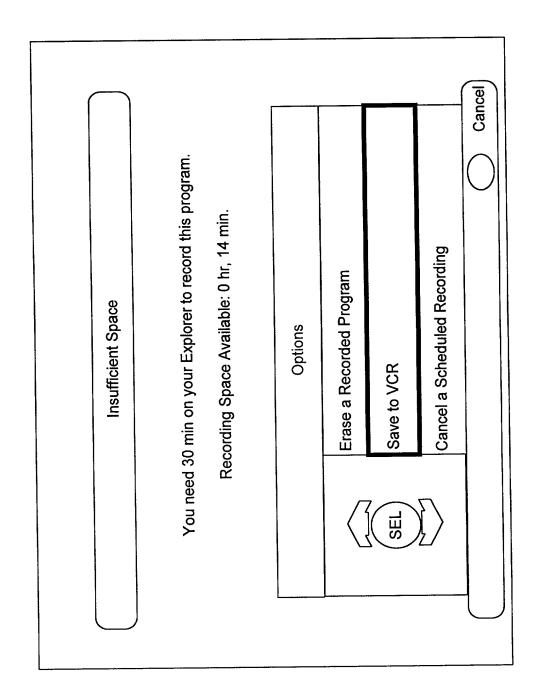


FIG. 14